

May 9, 2012

Analytical Report for Service Request No: K1204313

Pam Morrill
CDM
14432 SE Eastgate Way
Suite 100
Bellevue, WA 98007

RE: Rainier Commons/79179-78891

Dear Pam:

Enclosed are the results of the samples submitted to our laboratory on May 05, 2012. For your reference, these analyses have been assigned our service request number K1204313.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3364. You may also contact me via Email at Howard.Holmes@alsglobal.com.

Respectfully submitted,

Columbia Analytical Services, Inc.


Howard Holmes
Project Chemist

HH/as

Page 1 of 361

Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LOD	Limit of Detection
LOQ	Limit of Quantitation
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H The holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimated value.
- J The result is an estimated value.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.2 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc. - Kelso
State Certifications, Accreditations, and Licenses

Agency	Web Site	Number
Alaska DEC UST	http://dec.alaska.gov/applications/eh/ehllabreports/USTLabs.aspx	UST-040
Arizona DHS	http://www.azdhs.gov/lab/license/env.htm	AZ0339
Arkansas - DEQ	http://www.adeq.state.ar.us/techsvs/labcert.htm	88-0637
California DHS (ELAP)	http://www.cdph.ca.gov/certlic/labs/Pages/ELAP.aspx	2286
DOD ELAP	http://www.denix.osd.mil/edqw/Accreditation/AccreditedLabs.cfm	L12-28
Florida DOH	http://www.doh.state.fl.us/lab/EnvLabCert/WaterCert.htm	E87412
Georgia DNR	http://www.gaepd.org/Documents/techguide_pcb.html#cel	881
Hawaii DOH	Not available	
Idaho DHW	http://www.healthandwelfare.idaho.gov/Health/Labs/CertificationDrinkingWaterLabs/tabid/1833/Default.aspx	
Indiana DOH	http://www.in.gov/isdh/24859.htm	C-WA-01
ISO 17025	http://www.pjlabs.com/	L12-27
Louisiana DEQ	http://www.deq.louisiana.gov/portal/DIVISIONS/PublicParticipationandPermitSupport/LouisianaLaboratoryAccreditationProgram.aspx	3016
Louisiana DHH	Not available	LA110003
Maine DHS	Not available	WA0035
Michigan DEQ	http://www.michigan.gov/deq/0,1607,7-135-3307_4131_4156---,00.html	9949
Minnesota DOH	http://www.health.state.mn.us/accreditation	053-999-368
Montana DPHHS	http://www.dphhs.mt.gov/publichealth/	CERT0047
Nevada DEP	http://ndep.nv.gov/bsdw/labservice.htm	WA35
New Jersey DEP	http://www.nj.gov/dep/oqa/	WA005
New Mexico ED	http://www.nmenv.state.nm.us/dwb/Index.htm	
North Carolina DWQ	http://www.dwqlab.org/	605
Oklahoma DEQ	http://www.deq.state.ok.us/CSDnew/labcert.htm	9801
Oregon – DEQ (NELAP)	http://public.health.oregon.gov/LaboratoryServices/EnvironmentalLaboratoryAccreditation/Pages/index.aspx	WA200001
South Carolina DHEC	http://www.scdhec.gov/environment/envserv/	61002
Texas CEQ	http://www.tceq.texas.gov/field/qa/env_lab_accreditation.html	704427-08-TX
Washington DOE	http://www.ecy.wa.gov/programs/eap/labs/lab-accreditation.html	C1203
Wisconsin DNR	http://dnr.wi.gov/	998386840
Wyoming (EPA Region 8)	http://www.epa.gov/region8/water/dwhome/wyomingdi.html	
Kelso Laboratory Website	www.caslab.com	NA

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. A complete listing of specific NELAP-certified analytes, can be found in the certification section at www.caslab.com or at the accreditation bodies web site.

Please refer to the certification and/or accreditation body's web site if samples are submitted for compliance purposes. The states highlighted above, require the analysis be listed on the state certification if used for compliance purposes and if the method/analyte is offered by that state.

Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client: CDM
Project: Rainier Commons
Sample Matrix: Misc Solid

Service Request No.: K1204313
Date Received: 5/5/12

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One solid sample was received for analysis at Columbia Analytical Services on 5/5/12. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

PCB Aroclors by EPA Method 8082

Matrix Spike Recovery Exceptions:

The matrix spike recovery of Aroclor 1016 and 1260 for sample BLDG24-COMP was outside control criteria because of matrix interference. The chromatogram indicated the presence of Aroclor 1254, which prevented accurate quantitation of the target analytes. The problem stemmed from common peaks for Aroclor 1016 and 1260 and 1254. Complete resolution of these two Aroclors was not possible, so a portion of Aroclor 1254 is unavoidably quantitated as Aroclor 1016 and 1260. The net effect was a high bias to the value reported for Aroclor 1016 and 1260. Recovery in the Laboratory Control Sample (LCS) was acceptable, which indicated the analytical batch was in control. The matrix spike outlier suggested a potential high bias in this matrix. No further corrective action was appropriate.

Elevated Detection Limits:

Sample BLDG24-COMP required dilution due to the presence of elevated levels of target analyte. The reporting limits were adjusted to reflect the dilution.

Approved by _____

Harold Holmes Date 5-9-12

Chain of Custody

CDM

K1204313
CHAIN-OF-CUSTODY

Date 5/4/12 Page 1 of 1

PROJECT INFORMATION					Laboratory Number:	ANALYSIS REQUEST					NUMBER OF CONTAINERS			
Project Manager: <u>Pam Merrill</u>	Project Name: <u>Rainier Commons</u>	Project Number: <u>79179 - 78891</u>	Site Location: <u>Seattle</u>	Sampled By: <u>Aw</u>		PETROLEUM HYDROCARBONS	ORGANIC COMPOUNDS	PESTS/PCBs	METALS	LEACHING TESTS		OTHER		
DISPOSAL INFORMATION					<input checked="" type="checkbox"/> Lab Disposal (return if not indicated)	Disposal Method:	Disposed by:	Disposal Date:	DW/S - Herb/Pest	TCLP - Metals (23)	TCLP - Pesticides			
					SW-846	CLP	Screening	CDM Std.	MFSP - Metals (Wa)	TCLP - Semivolatiles (ZHE)				
SAMPLE ID	DATE	TIME	MATRIX	LAB ID	8080 OC PCBs only	8150 OC Herbicides	8140 OP Pesticides	DW/S - Metals (Wa)	DW/S - Metals	TCLP - Semivolatiles				
BLDG24-COMP	5/3/12	2135	Conc.		8080 GC/MS PCBs	8080 GC/MS Semivolatiles	8080 GC/MS Volatiles	8080 M PCBs only	8080 OC PCBs	8150 OC Semivolatiles				
					8090 PAHs	8090 Phenols	8090 Phenoxy Compounds	8090 PAHs	8090 PCBs	8150 PCBs				
					8100 Aromatic VOCs	8100 Halogenated VOCs	8100 Semivolatiles	8100 Aromatic VOCs	8100 PCBs	8150 PCBs				
					TPH Special Instructions	TPH Special Instructions	TPH Special Instructions	TPH Special Instructions	TPH Special Instructions	TPH Special Instructions				
					TPH-418.1	TPH-D	TPH-G	TPH-HCID	TPH-HCID	TPH-HCID				
					State:	State:	State:	State:	State:	State:				
QC INFORMATION (check one)														
<input type="checkbox"/> SW-846 <input type="checkbox"/> CLP <input type="checkbox"/> Screening <input type="checkbox"/> CDM Std. <input type="checkbox"/> Special														

LAB INFORMATION		SAMPLE RECEIPT		RELINQUISHED BY: 1		RELINQUISHED BY: 2		RELINQUISHED BY: 3	
Lab Name: <u>ALS Environmental</u>	Total Number of Containers:	Signature: <u>Aug West</u>	Time: <u>9:35</u>	Signature:	Time:	Signature:	Time:	Signature:	Time:
Lab Address: <u>1317 S. 13th Ave</u>	Chain-of-Custody Seals: Y/N/NA	Printed Name: <u>Aug West</u>	Date: <u>5/4/12</u>	Printed Name:	Date:	Printed Name:	Date:	Printed Name:	Date:
<u>Kelso WA 98626</u>	Intact?: Y/N/NA	Company: <u>CDM Smith</u>		Company:		Company:		Company:	
Via: <u>Fed EX</u>	Received in Good Condition/Cold:								
Turn Around Time: <input type="checkbox"/> Standard <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input checked="" type="checkbox"/> 72 hr. <input type="checkbox"/> 1 wk.									
PRIOR AUTHORIZATION IS REQUIRED FOR RUSH DATA									
Special Instructions:									

CDM OFFICES: Bellevue: (206) 453-8383
rev. 2/02 Portland: (503) 232-1800

DISTRIBUTION: White, Canary to Analytical Laboratory; Pink to CDM Project Files; Gold to CDM Disposal Files
forms\field\chainofcustody.p65

RCLLC 0012435



PC H2

Cooler Receipt and Preservation Form

Client / Project: CDM

Service Request K12

04313

Received: 5/5/12 Opened: 5/5/12 By: BU Unloaded: 5/5/12 By: BU

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* NA
3. Were custody seals on coolers? NA Y N If yes, how many and where? 1 Front
- If present, were custody seals intact? NA Y N If present, were they signed and dated?

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	NA	Tracking Number	NA	Filed
43	N.P.	303		NA	7935-3087-8377		

7. Packing material: *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Dry Ice* *Sleeves* _____
8. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
12. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
13. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? *Indicate in the table below.* NA Y N
14. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
15. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:
		RUSH

Sample ID	Bottle Count Bottle Type	Out of Temp	Head- space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions:

Total Solids

COLUMBIA ANALYTICAL SERVICES, INC.
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Analytical Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891
Sample Matrix: Cement

Service Request: K1204313

Total Solids

Prep Method: NONE Units: PERCENT
Analysis Method: 160.3M Basis: Wet
Test Notes:

Sample Name	Lab Code	Date Collected	Date Received	Date Analyzed	Result	Result Notes
BLDG24-COMP	K1204313-001	05/03/2012	05/05/2012	05/07/2012	94.2	

COLUMBIA ANALYTICAL SERVICES, INC.
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QA/QC Report

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891
Sample Matrix: Cement

Service Request: K1204313
Date Collected: 05/03/2012
Date Received: 05/05/2012
Date Analyzed: 05/07/2012

Duplicate Sample Summary
Total Solids

Prep Method: NONE Units: PERCENT
Analysis Method: 160.3M Basis: Wet
Test Notes:

Sample Name	Lab Code	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
BLDG24-COMP	K1204313-001	94.2	94.2	94.2	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

EPA Method 160.3 - Total Solids

Group ID:	KWG1204663	Run #	290556	Reviewed By:	BOK
Analyst:	PFaiman /AB	Oven TempStart:	105 DEG C	Date Reviewed:	5/8/12
Date Acquired:	05/07/2012 00:00	Oven TempEnd:	105 DEG C		
Date Completed:	05/08/2012 00:00				

#	Lab Code	Client ID	Matrix	Tare	Tare+Wet	Tare+Dry	% Solids	QC Ref Sample	Comments
1	K1204313-001	BLDG24-COMP	CEMENT	1.34g	7.00g	6.67g	94.2		K-BALANCE-16
2	KWG1204663-1	Duplicate Client Sample	CEMENT	1.34g	6.70g	6.39g	94.2	K1204313-001	K-BALANCE-16 $\bar{x} = 94.2$ $RID = <1$

13

Polychlorinated Biphenyls

Organic Analysis:
Polychlorinated Biphenyls (PCBs)

Summary Package

Sample and QC Results

COLUMBIA ANALYTICAL SERVICES, INC.
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Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891

Service Request: K1204313

Cover Page - Organic Analysis Data Package
Polychlorinated Biphenyls (PCBs)

Sample Name	Lab Code	Date Collected	Date Received
BLDG24-COMP	K1204313-001	05/03/2012	05/05/2012
BLDG24-COMPMS	KWG1204740-1	05/03/2012	05/05/2012
BLDG24-COMPDMDS	KWG1204740-2	05/03/2012	05/05/2012

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Lori E. Petwood
Date: 5/24/12

Name: Lori Petwood
Title: Scientist

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891
Sample Matrix: Cement

Service Request: K1204313
Date Collected: 05/03/2012
Date Received: 05/05/2012

Polychlorinated Biphenyls (PCBs)

Sample Name:	BLDG24-COMP	Units:	ug/Kg
Lab Code:	K1204313-001	Basis:	Dry
Extraction Method:	EPA 3540C	Level:	Low
Analysis Method:	8082A		

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	11	1	05/07/12	05/09/12	KWG1204740	
Aroclor 1221	ND U	22	1	05/07/12	05/09/12	KWG1204740	
Aroclor 1232	ND U	11	1	05/07/12	05/09/12	KWG1204740	
Aroclor 1242	ND U	11	1	05/07/12	05/09/12	KWG1204740	
Aroclor 1248	ND U	11	1	05/07/12	05/09/12	KWG1204740	
Aroclor 1254	1400 D	110	10	05/07/12	05/09/12	KWG1204740	
Aroclor 1260	ND U	11	1	05/07/12	05/09/12	KWG1204740	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	112	35-133	05/09/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

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Analytical Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891
Sample Matrix: Cement

Service Request: K1204313
Date Collected: NA
Date Received: NA

Polychlorinated Biphenyls (PCBs)

Sample Name:	Method Blank	Units:	ug/Kg
Lab Code:	KWG1204740-4	Basis:	Dry
Extraction Method:	EPA 3540C	Level:	Low
Analysis Method:	8082A		

Analyte Name	Result Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Note
Aroclor 1016	ND U	10	1	05/07/12	05/09/12	KWG1204740	
Aroclor 1221	ND U	20	1	05/07/12	05/09/12	KWG1204740	
Aroclor 1232	ND U	10	1	05/07/12	05/09/12	KWG1204740	
Aroclor 1242	ND U	10	1	05/07/12	05/09/12	KWG1204740	
Aroclor 1248	ND U	10	1	05/07/12	05/09/12	KWG1204740	
Aroclor 1254	ND U	10	1	05/07/12	05/09/12	KWG1204740	
Aroclor 1260	ND U	10	1	05/07/12	05/09/12	KWG1204740	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Note
Decachlorobiphenyl	127	35-133	05/09/12	Acceptable

Comments: _____

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891
Sample Matrix: Cement

Service Request: K1204313**Surrogate Recovery Summary
Polychlorinated Biphenyls (PCBs)**

Extraction Method: EPA 3540C
Analysis Method: 8082A

Units: PERCENT
Level: Low

Sample Name	Lab Code	Sur1
BLDG24-COMP	K1204313-001	112
Method Blank	KWG1204740-4	127
BLDG24-COMPMS	KWG1204740-1	121
BLDG24-COMPDMS	KWG1204740-2	117
Lab Control Sample	KWG1204740-3	115

Surrogate Recovery Control Limits (%)

Sur1 = Decachlorobiphenyl 35-133

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891
Sample Matrix: Cement

Service Request: K1204313
Date Extracted: 05/07/2012
Date Analyzed: 05/09/2012

Matrix Spike/Duplicate Matrix Spike Summary
Polychlorinated Biphenyls (PCBs)

Sample Name: BLDG24-COMP
Lab Code: K1204313-001

Units: ug/Kg
Basis: Dry

Extraction Method: EPA 3540C
Analysis Method: 8082A

Level: Low
Extraction Lot: KWG1204740

Analyte Name	Sample Result	BLDG24-COMPMS KWG1204740-1			BLDG24-COMPDMS KWG1204740-2			%Rec Limits	RPD	RPD Limit			
		Matrix Spike			Duplicate Matrix Spike								
		Result	Expected	%Rec	Result	Expected	%Rec						
Aroclor 1016	ND	422	212	199 *	405	212	191 *	27-128	4	40			
Aroclor 1260	ND	712	212	335 *	631	212	298 *	29-131	12	40			

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891
Sample Matrix: Cement

Service Request: K1204313
Date Extracted: 05/07/2012
Date Analyzed: 05/09/2012

**Lab Control Spike Summary
Polychlorinated Biphenyls (PCBs)**

Extraction Method: EPA 3540C
Analysis Method: 8082A

Units: ug/Kg**Basis:** Dry**Level:** Low**Extraction Lot:** KWG1204740

Lab Control Sample
KWG1204740-3
Lab Control Spike

Analyte Name	Result	Expected	%Rec	%Rec Limits
Aroclor 1016	193	200	96	37-121
Aroclor 1260	213	200	107	42-123

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Report

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891
Sample Matrix: Cement

Service Request: K1204313
Date Extracted: 05/07/2012
Date Analyzed: 05/09/2012
Time Analyzed: 02:47

**Method Blank Summary
Polychlorinated Biphenyls (PCBs)**

Sample Name:	Method Blank	Instrument ID:	GC32.i
Lab Code:	KWG1204740-4	File ID:	J:\GC32\DATA\050812.B\0508F034.D
Extraction Method:	EPA 3540C	Level:	Low
Analysis Method:	8082A	Extraction Lot:	KWG1204740

This Method Blank applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
BLDG24-COMP	K1204313-001	J:\GC32\DATA\050812.B\0508F030.D	05/09/12	00:49
BLDG24-COMPMS	KWG1204740-1	J:\GC32\DATA\050812.B\0508F031.D	05/09/12	01:19
BLDG24-COMPDMS	KWG1204740-2	J:\GC32\DATA\050812.B\0508F032.D	05/09/12	01:48
Lab Control Sample	KWG1204740-3	J:\GC32\DATA\050812.B\0508F033.D	05/09/12	02:18
BLDG24-COMP	K1204313-001	J:\GC32\DATA\050812.B\0508F038.D	05/09/12	08:35

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Report

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891
Sample Matrix: Cement

Service Request: K1204313
Date Extracted: 05/07/2012
Date Analyzed: 05/09/2012
Time Analyzed: 02:18

**Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs)**

Sample Name: Lab Control Sample
Lab Code: KWG1204740-3

Instrument ID: GC32.i
File ID: J:\GC32\DATA\050812.B\0508F033.D

Extraction Method: EPA 3540C
Analysis Method: 8082A

Level: Low
Extraction Lot: KWG1204740

This Lab Control Sample applies to the following analyses:

Sample Name	Lab Code	File ID	Date Analyzed	Time Analyzed
BLDG24-COMP	K1204313-001	J:\GC32\DATA\050812.B\0508F030.D	05/09/12	00:49
BLDG24-COMPMS	KWG1204740-1	J:\GC32\DATA\050812.B\0508F031.D	05/09/12	01:19
BLDG24-COMPDMS	KWG1204740-2	J:\GC32\DATA\050812.B\0508F032.D	05/09/12	01:48
Method Blank	KWG1204740-4	J:\GC32\DATA\050812.B\0508F034.D	05/09/12	02:47
BLDG24-COMP	K1204313-001	J:\GC32\DATA\050812.B\0508F038.D	05/09/12	08:35

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891

Service Request: K1204313
Calibration Date: 04/05/2012

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL11401
Instrument ID: GC32.i

Column: DB-35MS

Level ID	File ID	Level ID	File ID
A	\cash1\acqudata\GC32\Data\040512.b\0405F003.D	Q	\cash1\acqudata\GC32\Data\040512.b\0405F019.D
B	\cash1\acqudata\GC32\Data\040512.b\0405F004.D	R	\cash1\acqudata\GC32\Data\040512.b\0405F020.D
C	\cash1\acqudata\GC32\Data\040512.b\0405F005.D	S	\cash1\acqudata\GC32\Data\040512.b\0405F021.D
D	\cash1\acqudata\GC32\Data\040512.b\0405F006.D	T	\cash1\acqudata\GC32\Data\040512.b\0405F022.D
E	\cash1\acqudata\GC32\Data\040512.b\0405F007.D	U	\cash1\acqudata\GC32\Data\040512.b\0405F023.D
F	\cash1\acqudata\GC32\Data\040512.b\0405F008.D	V	\cash1\acqudata\GC32\Data\040512.b\0405F024.D
G	\cash1\acqudata\GC32\Data\040512.b\0405F009.D	W	\cash1\acqudata\GC32\Data\040512.b\0405F025.D
H	\cash1\acqudata\GC32\Data\040512.b\0405F010.D	X	\cash1\acqudata\GC32\Data\040512.b\0405F026.D
I	\cash1\acqudata\GC32\Data\040512.b\0405F011.D	Y	\cash1\acqudata\GC32\Data\040512.b\0405F027.D
J	\cash1\acqudata\GC32\Data\040512.b\0405F012.D	Z	\cash1\acqudata\GC32\Data\040512.b\0405F028.D
K	\cash1\acqudata\GC32\Data\040512.b\0405F013.D	AA	\cash1\acqudata\GC32\Data\040512.b\0405F029.D
L	\cash1\acqudata\GC32\Data\040512.b\0405F014.D	AB	\cash1\acqudata\GC32\Data\040512.b\0405F030.D
M	\cash1\acqudata\GC32\Data\040512.b\0405F015.D	AC	\cash1\acqudata\GC32\Data\040512.b\0405F031.D
N	\cash1\acqudata\GC32\Data\040512.b\0405F016.D	AD	\cash1\acqudata\GC32\Data\040512.b\0405F032.D
O	\cash1\acqudata\GC32\Data\040512.b\0405F017.D		
P	\cash1\acqudata\GC32\Data\040512.b\0405F018.D		

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF
Decachlorobiphenyl	A	2.5	80000	B	5.0	74300	C	50	69900	D	100	66600	E	200	62400
	F	500	59800												
Aroclor 1016 {1}	A	25	1220	B	50	1150	C	500	1130	D	1000	1110	E	2000	1020
	F	5000	944												
Aroclor 1016 {2}	A	25	4170	B	50	3860	C	500	3410	D	1000	3250	E	2000	3370
	F	5000	2960												
Aroclor 1016 {3}	A	25	2590	B	50	2620	C	500	2460	D	1000	2320	E	2000	2180
	F	5000	2040												
Aroclor 1016 {4}	A	25	2030	B	50	2080	C	500	1910	D	1000	1840	E	2000	1700
	F	5000	1560												
Aroclor 1016 {5}	A	25	2350	B	50	2070	C	500	1970	D	1000	1880	E	2000	1750
	F	5000	1630												
Aroclor 1260 {1}	A	25	4410	B	50	4320	C	500	3980	D	1000	3750	E	2000	3480
	F	5000	3260												
Aroclor 1260 {2}	A	25	5930	B	50	5380	C	500	5010	D	1000	4700	E	2000	4410
	F	5000	4150												
Aroclor 1260 {3}	A	25	4970	B	50	5120	C	500	4660	D	1000	4380	E	2000	4090
	F	5000	3910												
Aroclor 1260 {4}	A	25	3580	B	50	3500	C	500	3410	D	1000	3260	E	2000	3040
	F	5000	2860												

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891**Service Request:** K1204313
Calibration Date: 04/05/2012**Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)****Calibration ID:** CAL11401
Instrument ID: GC32.i**Column:** DB-35MS

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF
Aroclor 1260 {5}	A	25	8430	B	50	8060	C	500	7630	D	1000	7320	E	2000	7050
	F	5000	6930												

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891

Service Request: K1204313
Calibration Date: 04/05/2012

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL11401
Instrument ID: GC32.i

Column: DB-35MS

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	10.9		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	8.9		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	12.5		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	9.7		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	10.7		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	13.0		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	11.8		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	13.2		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	10.7		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	8.5		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	7.8		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891

Service Request: K1204313
Calibration Date: 04/05/2012
Date Analyzed: 04/06/2012

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL11401
Units: ng/mL

File ID: \\cash1\acquidata\GC32\Data\040512.b\0405F033.D
\\cash1\acquidata\GC32\Data\040512.b\0405F034.D
\\cash1\acquidata\GC32\Data\040512.b\0405F035.D
\\cash1\acquidata\GC32\Data\040512.b\0405F036.D
\\cash1\acquidata\GC32\Data\040512.b\0405F037.D
\\cash1\acquidata\GC32\Data\040512.b\0405F038.D
\\cash1\acquidata\GC32\Data\040512.b\0405F039.D
\\cash1\acquidata\GC32\Data\040512.b\0405F040.D
\\cash1\acquidata\GC32\Data\040512.b\0405F041.D

Column ID: DB-35MS

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Aroclor 1016 {1}	1000	1000	1100	1130	4	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	3510	3620	3	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	1000	2370	2410	2	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	980	1850	1820	-2	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1000	1940	2000	3	NA	± 100 %	AverageRF
Aroclor 1016	1000	1000	NA	NA	2	± 20 %	NA	
Aroclor 1260 {1}	1000	940	3870	3630	-6	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	930	4930	4590	-7	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	840	4520	3800	-16	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	1100	3280	3630	11	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1100	7570	8160	8	NA	± 100 %	AverageRF
Aroclor 1260	1000	980	NA	NA	-2	± 20 %	NA	

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891

Service Request: K1204313
Calibration Date: 04/05/2012

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL11401
Instrument ID: GC32.i

Column: DB-XLB

Level ID	File ID	Level ID	File ID
A	\cash1\acqudata\GC32\Data\040512_r.b\0405F003.D	Q	\cash1\acqudata\GC32\Data\040512_r.b\0405F019.D
B	\cash1\acqudata\GC32\Data\040512_r.b\0405F004.D	R	\cash1\acqudata\GC32\Data\040512_r.b\0405F020.D
C	\cash1\acqudata\GC32\Data\040512_r.b\0405F005.D	S	\cash1\acqudata\GC32\Data\040512_r.b\0405F021.D
D	\cash1\acqudata\GC32\Data\040512_r.b\0405F006.D	T	\cash1\acqudata\GC32\Data\040512_r.b\0405F022.D
E	\cash1\acqudata\GC32\Data\040512_r.b\0405F007.D	U	\cash1\acqudata\GC32\Data\040512_r.b\0405F023.D
F	\cash1\acqudata\GC32\Data\040512_r.b\0405F008.D	V	\cash1\acqudata\GC32\Data\040512_r.b\0405F024.D
G	\cash1\acqudata\GC32\Data\040512_r.b\0405F009.D	W	\cash1\acqudata\GC32\Data\040512_r.b\0405F025.D
H	\cash1\acqudata\GC32\Data\040512_r.b\0405F010.D	X	\cash1\acqudata\GC32\Data\040512_r.b\0405F026.D
I	\cash1\acqudata\GC32\Data\040512_r.b\0405F011.D	Y	\cash1\acqudata\GC32\Data\040512_r.b\0405F027.D
J	\cash1\acqudata\GC32\Data\040512_r.b\0405F012.D	Z	\cash1\acqudata\GC32\Data\040512_r.b\0405F028.D
K	\cash1\acqudata\GC32\Data\040512_r.b\0405F013.D	AA	\cash1\acqudata\GC32\Data\040512_r.b\0405F029.D
L	\cash1\acqudata\GC32\Data\040512_r.b\0405F014.D	AB	\cash1\acqudata\GC32\Data\040512_r.b\0405F030.D
M	\cash1\acqudata\GC32\Data\040512_r.b\0405F015.D	AC	\cash1\acqudata\GC32\Data\040512_r.b\0405F031.D
N	\cash1\acqudata\GC32\Data\040512_r.b\0405F016.D	AD	\cash1\acqudata\GC32\Data\040512_r.b\0405F032.D
O	\cash1\acqudata\GC32\Data\040512_r.b\0405F017.D		
P	\cash1\acqudata\GC32\Data\040512_r.b\0405F018.D		

Analyte Name	Level			Level			Level			Level			Level		
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF
Decachlorobiphenyl				B	5.0	90900	C	50	72900	D	100	66900	E	200	62800
	F	500	55000												
Aroclor 1016 {1}	A	25	2200	B	50	2250	C	500	2300	D	1000	2170	E	2000	2040
	F	5000	1880												
Aroclor 1016 {2}	A	25	4030	B	50	3870	C	500	3940	D	1000	3790	E	2000	3520
	F	5000	3330												
Aroclor 1016 {3}	A	25	2050	B	50	1950	C	500	2120	D	1000	2080	E	2000	1940
	F	5000	1790												
Aroclor 1016 {4}	A	25	1880	B	50	1840	C	500	1830	D	1000	1750	E	2000	1590
	F	5000	1420												
Aroclor 1016 {5}	A	25	2020	B	50	1990	C	500	2020	D	1000	1930	E	2000	1770
	F	5000	1590												
Aroclor 1260 {1}	A	25	4790	B	50	4590	C	500	4470	D	1000	4320	E	2000	3840
	F	5000	3530												
Aroclor 1260 {2}	A	25	5680	B	50	5780	C	500	5500	D	1000	5240	E	2000	4740
	F	5000	4430												
Aroclor 1260 {3}	A	25	6620	B	50	6570	C	500	6500	D	1000	6030	E	2000	5630
	F	5000	5310												
Aroclor 1260 {4}	A	25	3560	B	50	3530	C	500	3590	D	1000	3280	E	2000	3080
	F	5000	2820												

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891**Service Request:** K1204313
Calibration Date: 04/05/2012**Initial Calibration Summary**
Polychlorinated Biphenyls (PCBs)**Calibration ID:** CAL11401
Instrument ID: GC32.i**Column:** DB-XLB

Analyte Name	Level A			Level B			Level C			Level D			Level E		
	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF	ID	Amt	RF
Aroclor 1260 {5}	A	25	9190	B	50	8970	C	500	8180	D	1000	7530	E	2000	7360
	F	5000	6930												

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891

Service Request: K1204313
Calibration Date: 04/05/2012

Initial Calibration Summary
Polychlorinated Biphenyls (PCBs)

Calibration ID: CAL11401
Instrument ID: GC32.i

Column: DB-XLB

Analyte Name	Compound Type	Calibration Evaluation				
		Fit Type	Eval.	Eval. Result	Q	Control Criteria
Decachlorobiphenyl	SURR	AverageRF	% RSD	19.4		≤ 20
Aroclor 1016 {1}	MULTI	AverageRF	% RSD	7.3		≤ 20
Aroclor 1016 {2}	MULTI	AverageRF	% RSD	7.2		≤ 20
Aroclor 1016 {3}	MULTI	AverageRF	% RSD	6.1		≤ 20
Aroclor 1016 {4}	MULTI	AverageRF	% RSD	10.5		≤ 20
Aroclor 1016 {5}	MULTI	AverageRF	% RSD	9.2		≤ 20
Aroclor 1260 {1}	MULTI	AverageRF	% RSD	11.3		≤ 20
Aroclor 1260 {2}	MULTI	AverageRF	% RSD	10.3		≤ 20
Aroclor 1260 {3}	MULTI	AverageRF	% RSD	9.0		≤ 20
Aroclor 1260 {4}	MULTI	AverageRF	% RSD	9.4		≤ 20
Aroclor 1260 {5}	MULTI	AverageRF	% RSD	11.4		≤ 20

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891

Service Request: K1204313
Calibration Date: 04/05/2012
Date Analyzed: 04/06/2012

Second Source Calibration Verification
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration ID: CAL11401
Units: ng/mL

File ID: \\cash1\acquidata\GC32\Data\040512_r.b\0405F033.D
\\cash1\acquidata\GC32\Data\040512_r.b\0405F034.D
\\cash1\acquidata\GC32\Data\040512_r.b\0405F035.D
\\cash1\acquidata\GC32\Data\040512_r.b\0405F036.D
\\cash1\acquidata\GC32\Data\040512_r.b\0405F037.D
\\cash1\acquidata\GC32\Data\040512_r.b\0405F038.D
\\cash1\acquidata\GC32\Data\040512_r.b\0405F039.D
\\cash1\acquidata\GC32\Data\040512_r.b\0405F040.D
\\cash1\acquidata\GC32\Data\040512_r.b\0405F041.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	SSV RF	%D	%Drift	Criteria	Curve Fit
Aroclor 1016 {1}	1000	1000	2140	2240	5	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	3750	3880	4	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	1990	2140	8	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	1720	1740	1	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1100	1890	1990	6	NA	± 100 %	AverageRF
Aroclor 1016	1000	1000	NA	NA	NA	5	± 20 %	NA
Aroclor 1260 {1}	1000	970	4250	4120	-3	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	970	5230	5050	-3	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	890	6110	5440	-11	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	3310	3820	15	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1100	8030	8530	6	NA	± 100 %	AverageRF
Aroclor 1260	1000	1000	NA	NA	NA	1	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

† SPCC Compound

‡ CCC Compound

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891

Service Request: K1204313

Date Analyzed: 05/08/2012

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 04/05/2012
Calibration ID: CAL11401
Analysis Lot: KWG1204780
Units: ng/mL
Column ID: DB-35MS

File ID: \\CASHI\\ACQUADATA\\GC32\\DATA\\050812.B\\0508F023.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	100	100	68800	68900	0	NA	± 20 %	AverageRF
Aroclor 1016 {1}	1000	1000	1100	1150	5	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	3510	3660	4	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	1000	2370	2470	4	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	1000	1850	1940	5	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1000	1940	2000	3	NA	± 100 %	AverageRF
Aroclor 1016	1000	1000	NA	NA	NA	4	± 20 %	NA
Aroclor 1260 {1}	1000	1000	3870	3960	2	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	1000	4930	4950	0	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	1000	4520	4620	2	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	1000	3280	3420	4	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1000	7570	7670	1	NA	± 100 %	AverageRF
Aroclor 1260	1000	1000	NA	NA	NA	2	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891

Service Request: K1204313
Date Analyzed: 05/08/2012

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 04/05/2012
Calibration ID: CAL11401
Analysis Lot: KWG1204780
Units: ng/mL

File ID: \\CASH1\ACQUADATA\GC32\DATA\050812_R.B\0508F023.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	100	110	69700	73300	5	NA	± 20 %	AverageRF
Aroclor 1016 {1}	1000	1100	2140	2260	6	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	1100	3750	4010	7	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	1990	2230	12	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	1100	1720	1880	9	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1100	1890	2090	10	NA	± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	9	± 20 %	NA
Aroclor 1260 {1}	1000	1100	4250	4570	7	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	1100	5230	5550	6	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	1100	6110	6560	7	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	1100	3310	3620	10	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1000	8030	8250	3	NA	± 100 %	AverageRF
Aroclor 1260	1000	1100	NA	NA	NA	7	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891

Service Request: K1204313

Date Analyzed: 05/09/2012

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 04/05/2012
Calibration ID: CAL11401
Analysis Lot: KWG1204780
Units: ng/mL
Column ID: DB-35MS

File ID: \\CASH1\ACQUADATA\GC32\DATA\050812.B\0508F035.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	100	100	68800	71600	4	NA	± 20 %	AverageRF
Aroclor 1016 {1}	1000	1100	1100	1200	9	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	1000	3510	3620	3	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	2370	2530	7	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	1100	1850	1990	8	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1100	1940	2060	6	NA	± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	7	± 20 %	NA
Aroclor 1260 {1}	1000	1100	3870	4090	6	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	1000	4930	5130	4	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	1100	4520	4880	8	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	1100	3280	3540	8	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1100	7570	7960	5	NA	± 100 %	AverageRF
Aroclor 1260	1000	1100	NA	NA	NA	6	± 20 %	NA

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891

Service Request: K1204313
Date Analyzed: 05/09/2012

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 04/05/2012
Calibration ID: CAL11401
Analysis Lot: KWG1204780
Units: ng/mL

File ID: \\CASH1\ACQUADATA\GC32\DATA\050812_R.B\0508F035.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	100	110	69700	76600	10	NA	± 20 %	AverageRF
Aroclor 1016 {1}	1000	1100	2140	2300	7	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	1100	3750	4140	11	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	1200	1990	2290	15	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	1100	1720	1950	13	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1100	1890	2160	14	NA	± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	12	± 20 %	NA
Aroclor 1260 {1}	1000	1100	4250	4840	14	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	1100	5230	5960	14	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	1200	6110	7030	15	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	3310	3860	17	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1100	8030	8870	10	NA	± 100 %	AverageRF
Aroclor 1260	1000	1100	NA	NA	NA	14	± 20 %	NA

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891

Service Request: K1204313
Date Analyzed: 05/09/2012

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 04/05/2012
Calibration ID: CAL11401
Analysis Lot: KWG1204780
Units: ng/mL
Column ID: DB-35MS

File ID: \\CASH1\ACQUADATA\GC32\DATA\050812.B\0508F039.D

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	100	110	68800	72500	5	NA	± 20 %	AverageRF
Aroclor 1016 {1}	1000	1100	1100	1200	10	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	990	3510	3460	-1	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	1100	2370	2580	9	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	1100	1850	2050	11	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1100	1940	2120	9	NA	± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	7	± 20 %	NA
Aroclor 1260 {1}	1000	1100	3870	4160	8	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	1100	4930	5210	6	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	1100	4520	4980	10	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	1100	3280	3610	10	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1100	7570	8110	7	NA	± 100 %	AverageRF
Aroclor 1260	1000	1100	NA	NA	NA	8	± 20 %	NA

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COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891

Service Request: K1204313
Date Analyzed: 05/09/2012

Continuing Calibration Verification Summary
Polychlorinated Biphenyls (PCBs)

Calibration Type: External Standard
Analysis Method: 8082A

Calibration Date: 04/05/2012
Calibration ID: CAL11401
Analysis Lot: KWG1204780
Units: ng/mL

File ID: \\CASH1\ACQUADATA\GC32\DATA\050812_R.B\0508F039.D

Column ID: DB-XLB

Analyte Name	Expected	Result	Average RF	CCV RF	%D	%Drift	Criteria	Curve Fit
Decachlorobiphenyl	100	110	69700	74200	7	NA	± 20 %	AverageRF
Aroclor 1016 {1}	1000	1100	2140	2370	11	NA	± 100 %	AverageRF
Aroclor 1016 {2}	1000	1100	3750	4200	12	NA	± 100 %	AverageRF
Aroclor 1016 {3}	1000	1200	1990	2320	17	NA	± 100 %	AverageRF
Aroclor 1016 {4}	1000	1100	1720	1960	14	NA	± 100 %	AverageRF
Aroclor 1016 {5}	1000	1200	1890	2180	16	NA	± 100 %	AverageRF
Aroclor 1016	1000	1100	NA	NA	NA	14	± 20 %	NA
Aroclor 1260 {1}	1000	1100	4250	4830	14	NA	± 100 %	AverageRF
Aroclor 1260 {2}	1000	1100	5230	5930	13	NA	± 100 %	AverageRF
Aroclor 1260 {3}	1000	1100	6110	6990	14	NA	± 100 %	AverageRF
Aroclor 1260 {4}	1000	1200	3310	3850	16	NA	± 100 %	AverageRF
Aroclor 1260 {5}	1000	1100	8030	8490	6	NA	± 100 %	AverageRF
Aroclor 1260	1000	1100	NA	NA	NA	13	± 20 %	NA

Results flagged with an asterisk (*) indicate values outside control criteria.

COLUMBIA ANALYTICAL SERVICES, INC.

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QA/QC Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891

Service Request: K1204313

Analysis Run Log
Polychlorinated Biphenyls (PCBs)

Analysis Method: 8082A**Analysis Lot:** KWG1204780**Instrument ID:** GC32.i**Column:** DB-35MS

File ID	Sample Name	Lab Code	Date Analysis Started	Start Time	Q	Date Analysis Finished	Finish Time
0508F023.D	Continuing Calibration Verification	KWG1204780-5	5/8/2012	21:25		5/8/2012	21:25
0508F024.D	Instrument Blank	KWG1204780-6	5/8/2012	21:55		5/8/2012	21:55
0508F030.D	BLDG24-COMP	K1204313-001	5/9/2012	00:49		5/9/2012	00:49
0508F031.D	BLDG24-COMPMS	KWG1204740-1	5/9/2012	01:19		5/9/2012	01:19
0508F032.D	BLDG24-COMPDMS	KWG1204740-2	5/9/2012	01:48		5/9/2012	01:48
0508F033.D	Lab Control Sample	KWG1204740-3	5/9/2012	02:18		5/9/2012	02:18
0508F034.D	Method Blank	KWG1204740-4	5/9/2012	02:47		5/9/2012	02:47
0508F035.D	Continuing Calibration Verification	KWG1204780-7	5/9/2012	03:16		5/9/2012	03:16
0508F036.D	Instrument Blank	KWG1204780-8	5/9/2012	03:46		5/9/2012	03:46
0508F038.D	BLDG24-COMP	K1204313-001	5/9/2012	08:35		5/9/2012	08:35
0508F039.D	Continuing Calibration Verification	KWG1204780-9	5/9/2012	09:04		5/9/2012	09:04
0508F040.D	Instrument Blank	KWG1204780-10	5/9/2012	09:34		5/9/2012	09:34

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

QA/QC Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891
Sample Matrix: Cement

Service Request: K1204313
Date Extracted: 05/07/2012

Extraction Prep Log
Polychlorinated Biphenyls (PCBs)

Extraction Method: EPA 3540C
Analysis Method: 8082A

Extraction Lot: KWG1204740
Level: Low

Sample Name	Lab Code	Date Collected	Date Received	Sample Amount	Final Volume	% Solids	Note
BLDG24-COMP	K1204313-001	05/03/12	05/05/12	20.001g	4mL	94.2	
BLDG24-COMPDL	K1204313-001	05/03/12	05/05/12	20.001g	4mL	94.2	
Method Blank	KWG1204740-4	NA	NA	20.054g	4mL	NA	
BLDG24-COMPMS	KWG1204740-1	05/03/12	05/05/12	20.003g	4mL	94.2	
BLDG24-COMPDMS	KWG1204740-2	05/03/12	05/05/12	20.054g	4mL	94.2	
Lab Control Sample	KWG1204740-3	NA	NA	20.000g	4mL	NA	

Results flagged with an asterisk (*) indicate the holding time was exceeded for the analysis

COLUMBIA ANALYTICAL SERVICES, INC.

Now part of the ALS Group

Confirmation Results

Client: CDM Federal Programs Corporation
Project: Rainier Commons/79179-78891
Sample Matrix: Cement

Service Request: K1204313
Date Collected: 05/03/2012
Date Received: 05/05/2012
Date Extracted: 05/07/2012

Polychlorinated Biphenyls (PCBs)

Sample Name: BLDG24-COMP **Units:** ug/Kg
Lab Code: K1204313-001 **Basis:** Dry
Extraction Method: EPA 3540C **Level:** Low
Analysis Method: 8082A

Analyte Name	MRL	Primary Result	Confirmation Result	RPD	Q	Dilution Factor	Date Analyzed
Aroclor 1254	110	1400	1700	19.4	D	10	05/09/12